Lockheed Martin
Scientific Engineering, Response and Analytical Services
2890 Woodbridge Avenue Building 209
Edison, NJ 08837-3679
Telephone 732-321-4200 Facsimile 732-494-4021

DATE: March 10, 2012

TO: Kelley Chase, EPA Region 3 OSC

Cynthia Caporale, EPA Region 3 OASQA

THROUGH: **Ex. 4 - CBI** SERAS Program Manager

FROM: **Ex. 4 - CBI**, SERAS QA/QC Officer

SUBJECT: VERIFICATION/COMPLETENESS CHECK – DIMOCK, PA LABORATORY DATA

File 1202001 FINAL PART 1 of 3 R33907 02 26 12 1400.pdf

INTRODUCTION

On March 10, 2012, a review of the case narratives and corresponding certificates of analysis from the EPA R3 (Metals Report Posted Feb 06) was conducted at the SERAS facility in accordance with the Follow-Up Verification/Completeness Check agreed upon during our teleconference on Wednesday 2/8/12.

The assumptions for this review include the following: 1) Case narratives from the Regional labs and/or subcontract labs have been reviewed in accordance with Regional or Environmental Services Assessment Team (ESAT) protocols and contain all pertinent and complete information to conduct the completeness check. SERAS will base this review on the information provided by the laboratory and not on an actual data package; and 2) SERAS will relay any "red" flags to the EPA R3 personnel to resolve and determine data usability.

OBSERVATIONS

In accordance with Table 1 – Field and QC Sampling Summary (Rev01 - 2/3/12), Table 2 – Sample Analytical Requirements Summary (Rev01 – 2/3/12), Methods for Groundwater and Surface Water Samples and the R3 SOPs R3QA159-021511 for ICP and R3QA-116-021511 for ICP-MS, the following observations were noted and need to be clarified/resolved.

File 1202004 FINAL PART 1 of 3 R33907 03 06 12 1150.pdf

- 1. For Batch BB21006, LCS1 (ICP/MS) is missing from the laboratory report. An acceptable LCS for this ICP/MS batch cannot be confirmed.
- 2. For Batch BB21006 for DUP3 (sample HW22), results for barium and manganese are missing. Since ICP/MS data were reported for these analytes, acceptable PPDs cannot be confirmed.
- 3. For Batch BB21302, the ICP method blank results are missing from the laboratory report. A clean method blank cannot be confirmed.
- 4. For Batch BB21302, barium results were missing in the laboratory report for DUP1 (sample HW16). An acceptable RPD cannot be confirmed for this analyte.
- 5. There were several metals that exceeded the MCL: Aluminum for HW22, HW22-P, HW16z and HW16; barium for HW16-P, HW16z, HW16, HW16-PF, HW16z-F and HW16-F; iron for HW22, HW23, HW22-P,

 $SERAS\text{-}172\text{-}DSR\text{-}031012_Dimock_19$

DIM0042246 DIM0042247

Lockheed Martin
Scientific Engineering, Response and Analytical Services
2890 Woodbridge Avenue Building 209
Edison, NJ 08837-3679
Telephone 732-321-4200 Facsimile 732-494-4021

HW22-PF, HW16z and HW16; lead for HW22; and manganese for HW22, HW22-F, HW22-P, HW22-PF, HW16z, HW16z-F and HW16-F.

- 6. There were several non-typical metals that were detected in some of the drinking water samples for which no MCLs are available: Boron for HW16-P, HW16z, HW16, HW16-PF, HW16z-F and HW16-F; strontium for HW22, HW22-F, HW23-F, HW22-P, HW23-PF, HW22-PF, HW49, HW16-P, HW16z, HW16, HW49-P, HW49-F, HW16-PF, HW16z-F, HW16z-F, HW16z-F, HW49-PF; uranium for HW48, HW48z-F, HW48z-F, HW22-F, HW23, HW23-F, HW22-P, HW23-PF, HW22-PF, HW49, HW54-P, HW49-P, HW54, HW49-F, HW54-PF, HW54-F and HW49-PF.
- 7. It is assumed that all required instrument QC in the method was run and was within the criteria listed in the EPA R3 SOPs since this information is not available in the laboratory report.

cc: Sella Burchette, SERAS Project Officer
John Gilbert, ERT WAM
Gary Newhart, ERT WAM

Ex. 4 - CBI SERAS Task Leader

SERAS-172-DSR-031012_Dimock_19

DIM0042246 DIM0042248